

Project Overview

As of April 30, 2012

Columbus Traffic Signal System Project Phase B

Description and Benefits: The existing Columbus Traffic Signal System (CTSS) was conceived and initiated in the 1970's and provided state-of-the art control for its time. The system allows for monitoring and operation of more than 1,000 signalized intersections, co-existence/operation of traffic surveillance cameras, and emergency pre-emption. The City of Columbus is implementing infrastructure changes to migrate the CTSS to an open architecture that can serve central Ohio stakeholders with system connectivity and interoperability. The goal is to move forward with future investments for the CTSS that will maximize use of previous investments based on the Columbus Traffic Signal System Assessment and Strategic Plan, November 2005. This project is the second phase in a series of projects to migrate all Columbus traffic signals to a new central traffic control system. This project includes approximately 315 signalized intersections including some Franklin County intersections.

This phase replaces the CTSS central computer system and central control software which is housed in the Traffic Management Center (TMC), traffic signal controllers, and communications equipment. Fiber optic cable and wireless communications will be used to communicate to the intersections. Existing traffic surveillance cameras will be upgraded and new surveillance cameras are added this phase. This phase expands the ability for interagency data exchange for the Department of Public Service and Department of Technology as part of the Citywide Connectivity goal and with other agencies in the metropolitan Columbus region. The design will support regional integration activities and the communications approach recommended by the Signal System Assessment and Strategic Plan.

Schedule:

Design: April 2010 – Autumn 2012

Construction: Spring 2013– October 2014

Status: In design.

Costs:

Design \$2,500,000*

Construction and inspection \$8,000,000**

* Paid for with Congestion, Mitigation & Air Quality funds.

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THE CITY OF
COLUMBUS
MICHAEL B. COLEMAN, MAYOR

DEPARTMENT OF
PUBLIC SERVICE

Div. of Design & Construction
109 North Front Street
Columbus, Ohio 43215
www.Columbus.gov

Contact Information:

Project Manager for Design: Ryan Bollo, P.E., tel. (614) 645-3946

Designer: HNTB Ohio, Inc.

Construction Contractor: TBD

Project Limits include, but are not limited to:

- The Downtown Central Business District,
- Morse Rd. from Indianola Av. to Cherry Bottom Rd.,
- East Broad St. from Taylor Station Rd. to the Franklin County line,
- Karl Rd. from Morse Rd. to Dublin-Granville Rd.,
- Dublin-Granville Rd. from Huntley Rd. to Forest Hills Bl.,
- Busch Bl. from Dublin-Granville Rd. to Schrock Rd.,
- Schrock Rd. from Busch Bl. to Cleveland Av.,
- Sawmill Rd. from Bethel Rd. to Chapman Elementary School
- Bethel Rd. from Sawmill Rd. to Olentangy River Rd.
- Henderson Rd. from Arlington Center Bl. to Olentangy Bl.